

10546005.trn

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTADKO1625

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 4 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 5 MAY 21 BIOSIS reloaded and enhanced with archival data
NEWS 6 MAY 21 TOXCENTER enhanced with BIOSIS reload
NEWS 7 MAY 21 CA/CAPLUS enhanced with additional kind codes for German patents
NEWS 8 MAY 22 CA/CAPLUS enhanced with IPC reclassification in Japanese patents
NEWS 9 JUN 27 CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers
NEWS 10 JUN 29 STN Viewer now available
NEWS 11 JUN 29 STN Express, Version 8.2, now available
NEWS 12 JUL 02 LEMBASE coverage updated
NEWS 13 JUL 02 LEMBASE coverage updated
NEWS 14 JUL 02 SCISEARCH enhanced with complete author names
NEWS 15 JUL 02 CHEM-KITS accession numbers revised
NEWS 16 JUL 02 CA/CAPLUS enhanced with utility model patents from China
NEWS 17 JUL 16 Caplus enhanced with French and German abstracts
NEWS 18 JUL 18 CA/CAPLUS patent coverage enhanced
NEWS 19 JUL 26 USPAPFULL/USPAT2 enhanced with IPC reclassification
NEWS 20 JUL 30 USGENE now available on STN
NEWS 21 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 22 AUG 06 BEILSTEIN updated with new compounds
NEWS 23 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 24 AUG 13 CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS 25 AUG 20 CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS 26 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 27 AUG 27 USPATOLD now available on STN
NEWS 28 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0C(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that

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specific topic.

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***** STN Columbus *****
FILE 'HOME' ENTERED AT 09:51:46 ON 29 AUG 2007

=> file caplus
FILE 'CAPLUS' ENTERED AT 09:52:30 ON 29 AUG 2007
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FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

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=> s IBAT
L1 366 IBAT
=> s ll and review/dt
L2 2061943 REVIEW/DT
6 L1 AND REVIEW/DT
=> d scan

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[illegible][illegible]

=> FILE STNGUIDE /
FILE 'STNGUIDE' ENTERED AT 09:54:29 ON 29 AUG 2007
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NEWS 1	MAY 01	Web Page for STN Seminar Schedule - N. America
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NEWS 7	MAY 21	CA/Caplus enhanced with additional kind codes for German patents
NEWS 8	MAY 22	CA/Caplus enhanced with IPC reclassification in Japanese patents
NEWS 9	JUN 27	CA/Caplus enhanced with pre-1967 CAS Registry Numbers
NEWS 10	JUN 29	STN Viewer now available
NEWS 11	JUN 29	STN Express, Version 8.2, now available
NEWS 12	JUL 02	LEMBASE coverage updated
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NEWS 14	JUL 02	SCISEARCH enhanced with complete author names
NEWS 15	JUL 02	CHEMCATS accession numbers revised
NEWS 16	JUL 02	CA/Caplus enhanced with utility model patents from China
NEWS 17	JUL 16	Caplus enhanced with French and German abstracts
NEWS 18	JUL 18	CA/Caplus patent coverage enhanced
NEWS 19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20	JUL 30	USGENE now available on STN
NEWS 21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 22	AUG 06	BELISTEN updated with new compounds
NEWS 23	AUG 06	FTSA enhanced with new thesaurus edition
NEWS 24	AUG 13	CA/Caplus enhanced with additional kind codes for granted patents
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NEWS 27 AUG 27 USPATOLD now available on STN
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spectral property data

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=>

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry file?

Choice (Y/n):

Switching to the Registry File....

Some commands only work in certain files. For example, the EXPAND
command can only be used to look at the index in a file which has an
index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> FILE REGISTRY

FILE 'REGISTRY' ENTERED AT 11:34:31 ON 29 AUG 2007
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TSCA INFORMATION NOW CURRENT THROUGH JUNE 29, 2007

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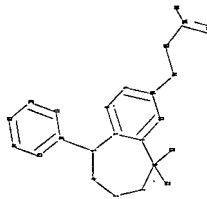
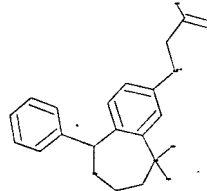
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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10546005structure.str



chain nodes :
12 13 14 15 16 17 24
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 18 19 20 21 22 23
chain bonds :
1-12 1-13 5-18 10-14 14-15 15-16 16-17 16-24
ring bonds :
1-2 1-7 2-3 3-4 4-5 5-6 6-7 6-8 7-11 8-9 9-10 10-11 18-19 18-23 19-20
20-21 21-22 22-23
exact/norm bonds :
1-2 1-7 1-12 1-13 2-3 3-4 4-5 5-6 10-14 14-15 16-17 16-24
exact bonds :
5-18 15-16
normalized bonds :
6-7 6-8 7-11 8-9 9-10 10-11 18-19 18-23 19-20 20-21 21-22 22-23

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GI:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom
19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

L1 STRUCTURE UPLOADED

=> FTL STNGUIDE

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=>

Connection closed by remote host

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Welcome to STN International! Enter x:X

LOGINID:SSPTADKO1625

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 24 AUG 13 CA/Caplus enhanced with additional kind codes for granted patents
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Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry file?

Choice (Y/n):

Switching to the Registry File...

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DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6

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=>

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chain nodes : 12 13 14 15 16 17 24
ring nodes : 1 2 3 4 5 6 7 8 9 10 11 18 19 20 21 22 23

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chain bonds : 1-12 1-13 5-18 10-14 14-15 15-16 16-17 16-24

ring bonds : 1-2 1-7 2-3 3-4 4-5 5-6 6-7 6-8 7-11 8-9 9-10 10-11 18-19 18-23 19-20
20-21 21-22 22-23

exact/norm bonds : 1-2 1-7 1-12 1-13 2-3 3-4 4-5 5-6 10-14 14-15 16-17 16-24

exact bonds : 5-18 15-16

normalized bonds : 6-7 6-8 7-11 8-9 9-10 10-11 18-19 18-23 19-20 20-21 21-22 22-23

GI:O,S

Match level :

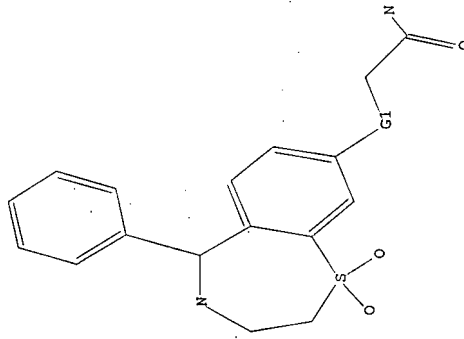
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom
19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



GI O,S

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Structure attributes must be viewed using STN Express query preparation.

```
=> s ll
SAMPLE SEARCH INITIATED 16:25:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 18 TO ITERATE
100.0% PROCESSED 18 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: BATCH 106 TO 614
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> FIL STNGUIDE
FILE 'STNGUIDE' ENTERED AT 16:26:00 ON 29 AUG 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 24, 2007 (20070824/UP).
```

```
=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND
command can only be used to look at the index in a file which has an
index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.
```

=> FILE REGISTRY

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DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007.

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conducting SmartSELECT searches.

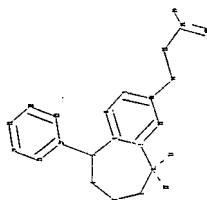
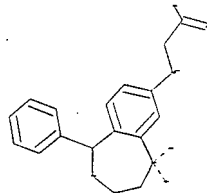
Page 15

10546005.trn

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
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<http://www.cas.org/support/stngen/stdoc/properties.html>

```
=>
Uploading C:\Program Files\Stnexp\Queries\10546005set.str
```



```
chain nodes :
12 13 14 15 16 17 24
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 18 19 20 21 22 23
chain bonds :
1-12 1-13 5-18 10-14 14-15 15-16 16-17 16-24
ring bonds :
1-2 1-7 2-3 3-4 4-5 5-6 6-7 6-8 7-11 8-9 9-10 10-11 18-19 18-23 19-20
20-21 21-22 22-23
exact/norm bonds :
1-2 1-7 1-12 1-13 2-3 3-4 4-5 5-6 10-14 14-15 16-17 16-24
exact bonds :
5-18 15-16
normalized bonds :
6-7 6-8 7-11 8-9 9-10 10-11 18-19 18-23 19-20 20-21 21-22 22-23
```

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G1:O,S

Match level :

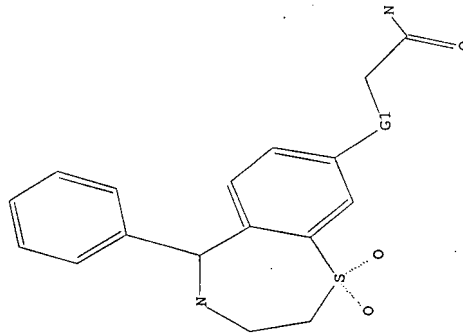
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom
19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 13

SAMPLE SEARCH INITIATED 16:27:27 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 18 TO ITERATE

100.0% PROCESSED 18 ITERATIONS

0 ANSWERS

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10546005.trn

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 106 TO 614

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s 13 full

FULL SEARCH INITIATED 16:27:35 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 331 TO ITERATE

100.0% PROCESSED 331 ITERATIONS

SEARCH TIME: 00.00.01

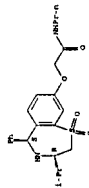
L5 23 SEA SSS FUL L3

=> d scan

23 ANSWERS

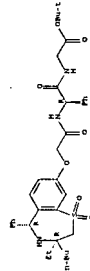
Page 18

23 ANSWERS REGISTRY COPYRIGHT 2007 ACS ON STN
IN
Acetone, N-propyl-2-[(1*R*,2*S*)-2,3,4,5-tetrahydro-
1*H*-thiophen-3-yl]-4-phenylazepin-4-ylloxy]-*N*-
CSA N2 Q1 2
Relative stereochemistry.



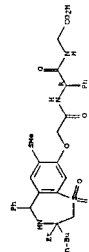
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):200

L5 23 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Glycine.
 (2S)-N-[(1S,3S)-3-methyl-3-ethyl-2,3,4,5-tetrahydro-
 3-phenyl-1,4-benzothiazepin-5-yl]acetamide-2-
 1,2-dichloroethyl ester (9Cl)
 MF C37 H47 N3 O2 S
 Absolute stereochemistry.



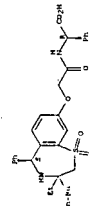
PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

23 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
Glycine, [2R, 4R]-N-[[[3-butyl-3-oxo-1,2,3,4,5-tetrahydro-7-(methoxymethyl)-1,1-dioxo-5-phenyl-1,4-benzoxazin-4-yl]acetyl]-2-phenyl]glycyl-
(19C)
MP C14 H41 N3 O7 52
Absolute stereochemistry.



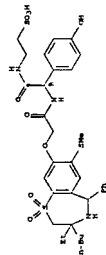
PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

23 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
Benzoic acid, α -[[[[(1S)-3-methyl-2-ethyl-2,3,4-tetrahydro-
1,1-dioxo-2-phenyl-1,4-benzothiazepin-8-yl)oxy]acetyl]amino]-,
(*ab*) - (SC2)
C31 H36 N2 O6 S
Absolute stereochemistry,



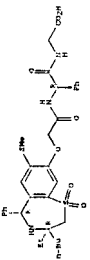
..PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT..

23. ANDREAS REGISTRY COPYRIGHT 2007 ACS on STM



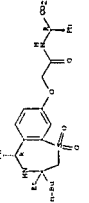
PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

LA 23 AMERISE REGISTRY COPYRIGHT 2007 ACS ON 5TH
 UI GLYCINE, (2S)-2-[[[(1S)-3-methyl-3-oxo-2,3,4,5-tetrahydro-7-
 isoxazolo[4,5-d]pyridin-6-yl]-1-oxo-2-phenylethyl]-2-
 phenylacetate], comp. of N-methylhistamine (11) (9CI)
 MF 2414183 OF 32 - C4 H11 N
 ON 1



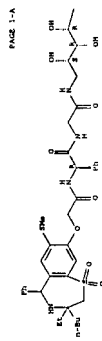
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23 AUGUSTS
REGISTRY COPYRIGHT 2007 ACS on EIU
IN
Benzoic acid, α -[[(5 α)-3-methyl-2-ethyl-2,3,4,5-tetrahydro-2H-1-benzothien-5-yl]-1,4-benzothiazepin-2-yl]acetylaldehyde,
(α)-1
NY C31 H36 N2 O6 S
Absolute Stereochemistry.



--PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT--

L3 23 AUGUSTS REGISTRY COPYRIGHT 2007 ACS on STM
 D-ethyl-1-[[[4-(3-tert-butyl-2,3,4,5-tetrahydro-7-
 (octylthio)-1,3-dioxo-6-phenyl-1,4-benzothiazepin-8-yl)acetyl-2-
 phenyl]oxy]pyrrolidin-1-yl]oxy. (bci)
 C40 H54 N4 O11 S2
 Absolute stereochemistry



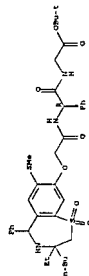
PAGE 1-A



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23 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
Glycine, (2S)-N-[[3-(butyl-3-oxo-1,2,3,4-tetrahydro-7-(ethoxycarbonyl)-1H-
dioxol-5-yl)phenyl]-1,4-bis(methyl-2-phenylacetyl)-2-phenylacetyl]-
1,1-diaethyl-1-ester (4C)
C18 H25 N1 O7 S2
Absolute alcohol, 100%.

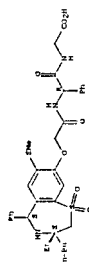


..PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT..

$$\text{H}_3\text{C}-\text{CH}_2=\text{NH}=\text{CH}_2-\text{CH}_3$$

..PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT..

23 ANWWE5 REGISTRY COPYRIGHT 2007 ACS on JN
GLYCINE, (2S)-N-[(1S,5S)-3-methyl-3-oxo-2,3,4,5-tetrahydro-7-
(methoxymethyl)-1,4-dioxol-5-yl]-1,4-benzodioxepin-8-yl]acetyl]-2-
phenylacetyl]-2-oxo-1,4-dioxepin-5-yl]-N-methylmethanamine (1:1) (S1)
C17H25N3O5
MW: 371.42
CAS: 1111111



8

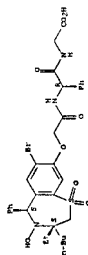
Absolute error function

8

$$\text{H}_3\text{C}-\text{CH}_2=\text{NH}=\text{CH}_2-\text{CH}_3$$

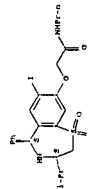
..PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT..

23 ANSWERS REGISTRY COPYRIGHT 2007 ACS ON STN
C33
IN
47
Glycine, (2S)-N-[[[(2S,5S)-7-hydroxy-3-methyl-2,3,4,5-tetrahydro-4-
hydroxy-1,1-dioxido-5-phenyl-1,4-benzothiazepine-yl]oxylacetyl]-2-
phenylglycyl]- (9CI)
C33 K38 Br H3 Q8 8



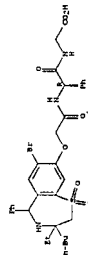
..PROPERTY DATA AVAILABLE IN THE 'PHONY' FORMAT..

23 ANSWERS REGISTRY COPYRIGHT 2007 ACE on STN
Acetamide, N-propyl-2-[[[(3,3,3-trifluoro-7-iodo-3-[(1-
methyl-2-oxo-1,1-dioxo-5-phenyl-1,4-benzothiazepin-9-yl)oxy]-1-
[9CI]
C23 H29 I N2 O4 E

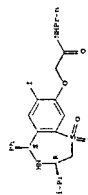


PROPERTY RITE AVAILABLE IN THE 1980s: FORMET-1

Q5 23 ANSWERS REGISTRY COPYRIGHT 2007 ACS ON 51N
Glycine,
5-((11-((17-iodo-3-butyl-3-ethyl-2,3,4,5-tetrahydro-2H-
pheno[1,2-b:4-b']oxazepin-8-yl)oxy)acetyl)-2-ph
C33 JAN 01 13 07 2

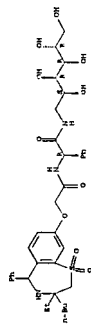


23 ANSWERS REGISTRY COPYRIGHT 2007 ACE on STM
Acetaldehyde, N-propyl-2-((3R,5S)-2,3,4,5-tetrahydro-7-iodo-3-(1-
methyl-ethyl)-1,1-dioxido-5-phenyl)-4-benzothiazepin-6-yloxy)-1,4-
dioxane
C23 H29 I N2 O4 S



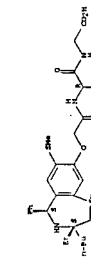
10546005.trn

15 23 ANWERS REGISTRY COPYRIGHT 2007 ACS on ETH
IN DICHLOMETHANE. (2S)-2-((11S,21S)-2-methyl-2,3,4,5-tetrahydro-1H-
benzothiazepin-1-yl)-1,4-dioxane-5-phenyl-1,4-bis(methylsulfonyl)-1-
ol. C23 H28 N2 O4 S2
MW 444.52
ABSOLUTE STEREOREGULARITY.



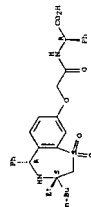
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 23 ANWERS REGISTRY COPYRIGHT 2007 ACS on ETH
IN DICHLOMETHANE. (2S)-2-((11S,21S)-2-methyl-2,3,4,5-tetrahydro-1H-
benzothiazepin-1-yl)-1,4-dioxane-5-phenyl-1,4-bis(methylsulfonyl)-1-
ol. C23 H28 N2 O4 S2
MW 444.52
ABSOLUTE STEREOREGULARITY.



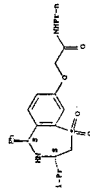
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 23 ANWERS REGISTRY COPYRIGHT 2007 ACS on ETH
IN DICHLOMETHANE. (2S)-2-((11S,21S)-2-methyl-2,3,4,5-tetrahydro-1H-
benzothiazepin-1-yl)-1,4-dioxane-5-phenyl-1,4-bis(methylsulfonyl)-1-
ol. C23 H28 N2 O4 S2
MW 444.52
ABSOLUTE STEREOREGULARITY.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

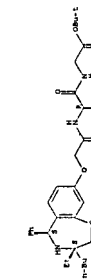
15 23 ANWERS REGISTRY COPYRIGHT 2007 ACS on ETH
IN DICHLOMETHANE. (2S)-2-((11S,21S)-2-methyl-2,3,4,5-tetrahydro-1H-
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ol. C23 H28 N2 O4 S2
MW 444.52
ABSOLUTE STEREOREGULARITY.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

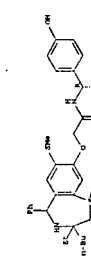
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15 23 ANWERS REGISTRY COPYRIGHT 2007 ACS on ETH
IN DICHLOMETHANE. (2S)-2-((11S,21S)-2-methyl-2,3,4,5-tetrahydro-1H-
benzothiazepin-1-yl)-1,4-dioxane-5-phenyl-1,4-bis(methylsulfonyl)-1-
ol. C23 H28 N2 O4 S2
MW 444.52
ABSOLUTE STEREOREGULARITY.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 23 ANWERS REGISTRY COPYRIGHT 2007 ACS on ETH
IN DICHLOMETHANE. (2S)-2-((11S,21S)-2-methyl-2,3,4,5-tetrahydro-1H-
benzothiazepin-1-yl)-1,4-dioxane-5-phenyl-1,4-bis(methylsulfonyl)-1-
ol. C23 H28 N2 O4 S2
MW 444.52
ABSOLUTE STEREOREGULARITY.



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FILE 'CAPLUS' ENTERED AT 16:28:46 ON 29 AUG 2007
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and his

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FILE 'REGISTRY' ENTERED AT 16:25:17 ON 29 AUG 2007
STRUCTURE UPLOADED

27
L2

FILE 'STNGUIDE' ENTERED AT 16:26:00 ON 29 AUG 2007

FILE 'REGISTRY' ENTERED AT 16:27:12 ON 29 AUG 2007
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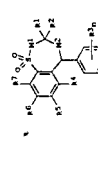
L4	0 S L3
L5	23 S L3 FULL

FILE 'CAPLUS' ENTERED AT 16:28:46 ON 29 AUG 2007

$\leq \$ 15$

L6 3 L5

=> d cbib abs hitstr

[illegible]

22

[illegible]

solvent, solvent of such a salt of a product thereof) were treated as feed file

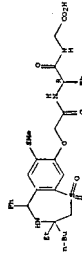
LE ANSWER 1 OF 3 CAPTUS COPYRIGHT 2007 ACE ON STD (Continued)

PAGE 1-8

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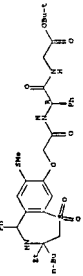
Absolute stereochemistry

Absolute stereochemistry

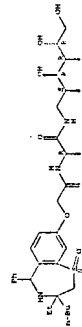


753010-66-1 CAPLIFE
Glycine, (2R)-N-[[[3-buty-3-ethyl-2,3,4,5-tetrahydro-7-(methylethyl)-1,1-dioxido-5-phenyl-1,4-benzothiazepin-8-yl]oxy]acetyl]-2-phenylglycyl-,
1,1-dimethylethyl ester (PCI) (CA INDEX NAME)

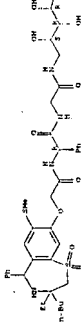
Accepted for publication 11 November 2015



Page 26

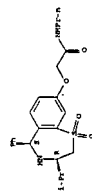
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753010-67-2 CAPRIZ

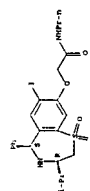


16 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACC ON 2TH (Continued)

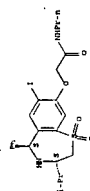
NOTES

[illegible]

461013-72-5	CAPLIS
Acetamide, N-propyl-2-[[[(3a,5b)-2,3,4,4-tetrahydro-3-(1-methylethyl)-1,1-dioxo[5-phenyl-1,6-benzothiazepin-9-yl]oxy]-,rel- (9CI)	(CA INDEX NAME)
Relative stereochemistry.	

[illegible]

441014-04-6 CAPUS
Acetamide, N-propyl-2-[[[(3R,5R)-2,3,4,5-tetrahydro-7-iodo-3-(1-methylthio)-1,1-dioxido-3-phenyl-1,4-benzothiazepin-6-yl)oxy]-,rel-
(9CI) (CA INDEX NAME)
relative stereochemistry.



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=> FIL REGISTRY
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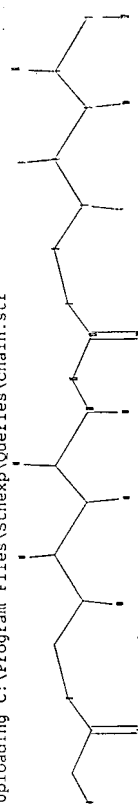
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=> Uploading C:\Program Files\Stnexp\Queries\chain.str

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chain nodes :
1 2 3 4 5
chain bonds :
1-2 1-13 2-3
exact/norm bond
1-2 1-13 3-8
exact bonds :
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2-3 3-4 4-5 5-6 6-7 13-15

GI:O,S

Match level :

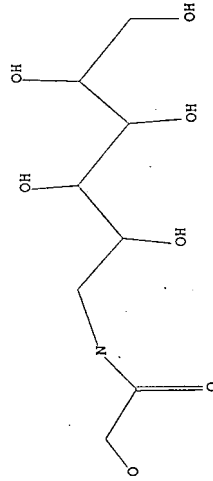
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

L7 STRUCTURE UPLOADED

=> d 17

L7 HAS NO ANSWERS

L7 STR



GI O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 17
SAMPLE SEARCH INITIATED 17:03:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1010 TO ITERATE

100.0% PROCESSED 1010 ITERATIONS
SEARCH TIME: 00.00.01 10 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 18294 TO 22106
PROJECTED ANSWERS: 11 TO 389

L8 10 SEA SSS SAM L7

=> s 17 full

FULL SEARCH INITIATED 17:03:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 19353 TO ITERATE

100.0% PROCESSED 19353 ITERATIONS
SEARCH TIME: 00.00.01 127 ANSWERS

Page 33

10546005.trn

L9 127 SEA SSS FUL L7

=> file caplus

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=> s 19

L10 42 L9

=> s 110 and bile
61800 BILE
344 BILES
61814 BILE
(BILE OR BILES)

L11 1 L10 AND BILE

=> d scan

Page 34

10546005.trn

[illegible]

ALL ANSWERS HAVE BEEN SCANNED

10546005.trn

```
=> s l10 and ibat
366 IBAT
L12      0 L10 AND IBAT

=> s l10 and transport
751580 TRANSPORT
6379 TRANSPORTS
754156 TRANSPORT
      (TRANSPORT OR TRANSPORTS)
L13      0 L10 AND TRANSPORT

=> s l10 and inhibitor
549359 INHIBITOR
553130 INHIBITORS
862893 INHIBITOR
      (INHIBITOR OR INHIBITORS)
L14      6 L10 AND INHIBITOR

=> d scan
```

$$\Rightarrow d \text{ scan}$$

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Page 36

his

```

(FILE 'HOME' ENTERED AT 16:25:08 ON 29 AUG 2007)
FILE 'REGISTRY' ENTERED AT 16:25:17 ON 29 AUG 2007
    STRUCTURE UPLOADED
    0 S L1
FILE 'STNGUIDE' ENTERED AT 16:26:00 ON 29 AUG 2007
FILE 'REGISTRY' ENTERED AT 16:27:12 ON 29 AUG 2007
    STRUCTURE UPLOADED
    0 S L3
    23 S L3 FULL
FILE 'CAPLUS' ENTERED AT 16:28:46 ON 29 AUG 2007
    3 S L5
FILE 'STNGUIDE' ENTERED AT 16:39:06 ON 29 AUG 2007
FILE 'REGISTRY' ENTERED AT 17:02:42 ON 29 AUG 2007
    STRUCTURE UPLOADED
    10 S L7
    127 S L7 FULL
FILE 'CAPLUS' ENTERED AT 17:03:27 ON 29 AUG 2007
    42 S L9
    1 S L10 AND BILE
    0 S L10 AND IEAT
    0 S L10 AND TRANSPORT
    6 S L10 AND INHIBITOR
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=> d cbib abs hitstr 1-6

10546005.trn

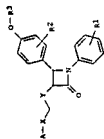
his

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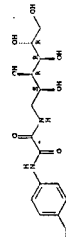
(FILE 'HOME' ENTERED AT 16:25:08 ON 29 AUG 2007)
FILE 'REGISTRY' ENTERED AT 16:25:17 ON 29 AUG 2007
    STRUCTURE UPLOADED
    0 S L1
FILE 'STNGUIDE' ENTERED AT 16:26:00 ON 29 AUG 2007
FILE 'REGISTRY' ENTERED AT 16:27:12 ON 29 AUG 2007
    STRUCTURE UPLOADED
    0 S L3
    23 S L3 FULL
FILE 'CAPLUS' ENTERED AT 16:28:46 ON 29 AUG 2007
    3 S L5
FILE 'STNGUIDE' ENTERED AT 16:39:06 ON 29 AUG 2007
FILE 'REGISTRY' ENTERED AT 17:02:42 ON 29 AUG 2007
    STRUCTURE UPLOADED
    10 S L7
    127 S L7 FULL
FILE 'CAPLUS' ENTERED AT 17:03:27 ON 29 AUG 2007
    42 S L9
    1 S L10 AND BILE
    0 S L10 AND IEAT
    0 S L10 AND TRANSPORT
    6 S L10 AND INHIBITOR
L1
L2
L3
L4
L5
L6
L7
L8
L9
L10
L11
L12
L13
L14
=> d cbbi abs hitstr 1-6

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=> d cbib abs hitstr 1-6

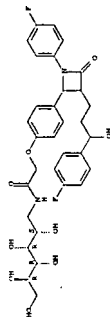
[illegible]

Acetazolamide derivative 1a is the (2S,4S)-2-amino-5-oxo-2,4-dihydro-1,2,4-triazole-3-carboxamide (1,1-dihydro) (1a) (see Supplementary Fig. S1, Supplementary Information, S.I.). The ¹H NMR spectrum of 1a in DMSO-*d*₆ (400 MHz) is as follows: 10.0 (s, 1H, NH), 8.9 (s, 1H, NH), 8.2 (s, 1H, NH), 8.1 (s, 1H, NH), 7.9 (s, 1H, NH), 7.8 (s, 1H, NH), 7.7 (s, 1H, NH), 7.6 (s, 1H, NH), 7.5 (s, 1H, NH), 7.4 (s, 1H, NH), 7.3 (s, 1H, NH), 7.2 (s, 1H, NH), 7.1 (s, 1H, NH), 7.0 (s, 1H, NH), 6.9 (s, 1H, NH), 6.8 (s, 1H, NH), 6.7 (s, 1H, NH), 6.6 (s, 1H, NH), 6.5 (s, 1H, NH), 6.4 (s, 1H, NH), 6.3 (s, 1H, NH), 6.2 (s, 1H, NH), 6.1 (s, 1H, NH), 6.0 (s, 1H, NH), 5.9 (s, 1H, NH), 5.8 (s, 1H, NH), 5.7 (s, 1H, NH), 5.6 (s, 1H, NH), 5.5 (s, 1H, NH), 5.4 (s, 1H, NH), 5.3 (s, 1H, NH), 5.2 (s, 1H, NH), 5.1 (s, 1H, NH), 5.0 (s, 1H, NH), 4.9 (s, 1H, NH), 4.8 (s, 1H, NH), 4.7 (s, 1H, NH), 4.6 (s, 1H, NH), 4.5 (s, 1H, NH), 4.4 (s, 1H, NH), 4.3 (s, 1H, NH), 4.2 (s, 1H, NH), 4.1 (s, 1H, NH), 4.0 (s, 1H, NH), 3.9 (s, 1H, NH), 3.8 (s, 1H, NH), 3.7 (s, 1H, NH), 3.6 (s, 1H, NH), 3.5 (s, 1H, NH), 3.4 (s, 1H, NH), 3.3 (s, 1H, NH), 3.2 (s, 1H, NH), 3.1 (s, 1H, NH), 3.0 (s, 1H, NH), 2.9 (s, 1H, NH), 2.8 (s, 1H, NH), 2.7 (s, 1H, NH), 2.6 (s, 1H, NH), 2.5 (s, 1H, NH), 2.4 (s, 1H, NH), 2.3 (s, 1H, NH), 2.2 (s, 1H, NH), 2.1 (s, 1H, NH), 2.0 (s, 1H, NH), 1.9 (s, 1H, NH), 1.8 (s, 1H, NH), 1.7 (s, 1H, NH), 1.6 (s, 1H, NH), 1.5 (s, 1H, NH), 1.4 (s, 1H, NH), 1.3 (s, 1H, NH), 1.2 (s, 1H, NH), 1.1 (s, 1H, NH), 1.0 (s, 1H, NH), 0.9 (s, 1H, NH), 0.8 (s, 1H, NH), 0.7 (s, 1H, NH), 0.6 (s, 1H, NH), 0.5 (s, 1H, NH), 0.4 (s, 1H, NH), 0.3 (s, 1H, NH), 0.2 (s, 1H, NH), 0.1 (s, 1H, NH), 0.0 (s, 1H, NH).

[illegible]

absolute minimum.

1144 ARTICLES 1 OF 6 CAPSULE COPYRIGHT 2007 ACS on 2/11 (Continued)
D-Glucitol, 1-deoxy-1-[(4-[(1-(4-fluorophenyl)-2,3-bis-(4-fluorophenyl)-5-hydroxypentyl)-4-oxo-2-oxolidinyl]phenoxy)acetyl]amino-19Cl) (CA INDEX NAME)
Absolute stereoch[em]istry.

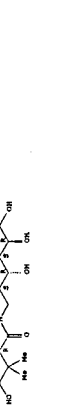
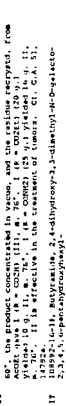
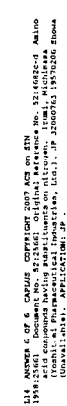
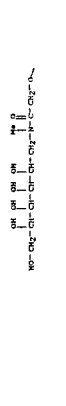
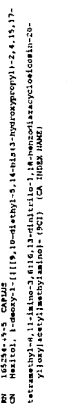
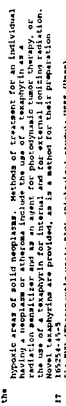
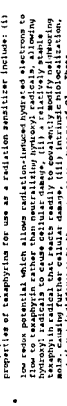
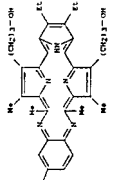
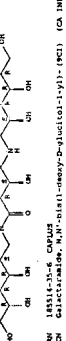
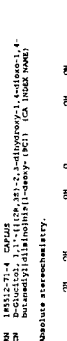
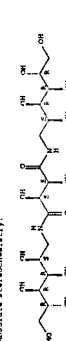
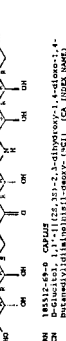
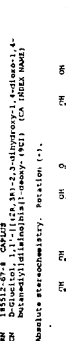
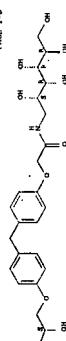
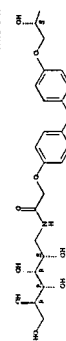
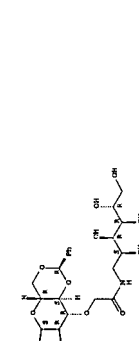
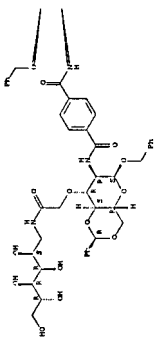


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L8 127 S L7 FULL
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PROP - EPROP and CALC

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The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

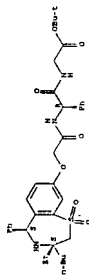
The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE)::ide

117 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
 01663-34-1 REGISTRY
 118 11663-34-1
 119 EN Glycine, STN. 26 Apr 2003
 120 CD
 121 (2S)-N-((1[(13S,3S)-2-methyl-2-ethyl-2,4,4,5-tetrahydro-1,
 122 5-phenyl-1,4-benzodisulphin-6-yl]oxy)acetyl)-2-phenyl-
 123 1-allyl-ethyl ester (BCI) (CA INDEX NAME)
 124 STEREOBOND
 125 137 HET NS 07 X
 126 137
 127 CA
 128 STN Files: CA, CAPUSZ, CAPZAT, USPATFULL
 129 Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPUS (1907 TO DATE)

```
=> d 117. full
'FULL' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
```

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

- REG
- SAM
- FIDE Index Name, MF, and structure - no RN
- FIDE All substance data, except sequence data
- FIDE, but only 50 names
- IDE, plus sequence data
- SQIDE Same as SQIDE, but 3-letter amino acid codes are used
- SQIDE3 Protein sequence data, includes RN
- SQD Same as SQD, but 3-letter amino acid codes are used
- SQD3 Protein sequence name information, includes RN
- SQSN

- Table of calculated properties
- Table of experimental properties
- EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

```

-- Abstract
RBS
-- Application and Priority Information
APPS
-- Bibliographic Data
BIB
-- CA Accession Number, plus Bibliographic Data
CAN
-- CA Accession Number
CBI
-- CA Accession Number, plus Bibliographic Data (compressed)
CBI
-- Index Data
IND
-- International Patent Classification
IPC
-- IPC
PAT
-- PI, SO
PAT
-- BIB, IPC, and NCL
STD

```

```
IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented
```

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

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=> d l17 rid
'RID' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SOIDE - IDE, plus sequence data
SOIDE3 - Same as SOIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN
CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL
IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented
OBIB ----- AN, plus Bibliographic Data (original)
OBIB ----- OBIE, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

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HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):rid
'RID' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SOIDE - IDE, plus sequence data
SOIDE3 - Same as SOIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN
CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL
IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented
OBIB ----- AN, plus Bibliographic Data (original)
OBIB ----- OBIE, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

Page 58

HELP DFIELDS -- To see a complete list of individual display fields.
 HELP FORMATS -- To see detailed descriptions of the predefined formats.
 ENTER DISPLAY FORMAT (IDE):/rid
 'RID' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

```
REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQW - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC
```

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

```
ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

TABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented
```

```
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
```

```
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
```

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.
 The MAX format is the same as ALL.
 The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
 HELP FORMATS -- To see detailed descriptions of the predefined formats.
 ENTER DISPLAY FORMAT (IDE):dfields
 'DFIELDS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

```
REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQW - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC
```

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

```
ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented
```

```
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
```

```
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
```

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.
 The MAX format is the same as ALL.
 The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help

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messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):end

=> help dfields

The display fields that you may use to display REGISTRY File records are listed below. You may use any of the SUBSTANCE INFORMATION FIELD CODES or PROPERTY FIELD CODES with the DISPLAY and PRINT commands. You may also use any of the CA DOCUMENT REFERENCE FIELD CODES OR PREDEFINED FORMATS, but these must always be combined with one of the Substance Information fields or formats. The fields appear in the order you request them.

The Component Number (CM) field code appears in records for multicomponent substances but is not a custom display field.

Substance Information Display Field Codes

AF Alternate Molecular Formula
AR Alternate CAS Registry Number
CCI Component Class Identifier
CCN Condensed Chemical Name (all names)
CI Class Identifier
CIL Component Isotope at Unknown Location
CMF Component Molecular Formula
CN Chemical Name (up to 50)
COMP Composition
CRN Component CAS Registry Number
DEF Definition
DR Deleted CAS Registry Number
ED Entry Date
ENTE Editor Note
FCN All Chemical Names
FS File Segment
IL Isotope at Unknown Location
IN Index Name
LC CAS Registry Number Locator
MF Molecular Formula
PCT Polymer Class Term
PR Preferred CAS Registry Number
REF Number of References in Caplus, CA, and CAOLD files and the number of references in CA for the non-specific derivatives
RN CAS Registry Number
RR Replacing Registry Number
RSD Ring System Data
SCN Short Chemical Name (IN and OTHER NAMES)
SR Source of Registration
SRD Short Ring System Data
STR Structure Diagram with stereo bond and R/S/z/E designations, if available
STF Flat Structure Diagram (no stereo bonds)
STS Structure Diagram with stereo bonds, if available

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Biosequence Field Codes

NA Nucleic Acid
NTE Note
PNTE Patent Annotation
SEQ Sequence (1-letter amino acid codes)
SEQ3 Sequence (3-letter amino acid codes)
SQL Sequence Length

Property Field Codes

BGF Bioconcentration Factor
BP Boiling Point
DEN Density
ECND Electric Conductivity
ECON Electric Conductance
ERES Electric Resistance
EREST Electric Resistivity
ETAG Experimental Property Tags
FP Flash Point
FRB Freely Rotable Bonds
HAC H acceptors
HD H donors
HDAS H Donor/Acceptor Sum
HVAP Enthalpy of Vaporization
ISLB.MASS Mass Intrinsic Solubility
KOC Organic Carbon Adsorption Coefficient
LD50 Median Lethal Dose
LOGD logD
LOGP logP
MM Magnetic Moment
MP Melting Point
MW Molecular Weight
ORP Optical Rotatory Power
PKA pKa
PSA Polar Surface Area
RI Refractive Index
SLB.MASS Mass Solubility
SLB.MOL Molar Solubility
SPEC Carbon-13 NMR Spectra
SPEC.C13NMR Carbon-13 NMR Spectra
SPEC.IR IR Absorption Spectra
SPEC.MASS Mass Spectra
SPEC.HINMR Proton NMR Spectra
TG Glass Transition Temperature
TS Tensile Strength
VP Vapor Pressure

Caplus Super Roles and Document Type Display Field codes

DT.CA Caplus document type
RL Caplus super roles
RL.NP Caplus super roles from non-patents
RL.P Caplus super roles from patents
RID (RL,D) Caplus super roles for non-specific derivatives
RID.NP Caplus super roles for non-specific derivatives

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RLD.P from non-patents
Capius super roles for non-specific derivatives
RLS from patents
Capius super roles for the specific substance
and its non-specific derivatives

For more information on display options, enter HELP FORMAT at an arrow prompt (=>). To find out about extracting search terms from display fields, enter HELP SELECT and HELP ANALYZE. For a list of fields that may be used with the ANALYZE and SELECT commands, enter HELP EFIELDS.

=> d 117 rsd

10546005.trn

RLD.P from non-patents
Capius super roles for non-specific derivatives
RLS from patents
Capius super roles for the specific substance
and its non-specific derivatives

For more information on display options, enter HELP FORMAT at an arrow prompt (=>). To find out about extracting search terms from display fields, enter HELP SELECT and HELP ANALYZE. For a list of fields that may be used with the ANALYZE and SELECT commands, enter HELP EFIELDS.

=> s 937.123.1/rid
L18 1652 937.123.1/rid

=> file caplus
FILE 'CAPLUS' ENTERED AT 17:11:52 ON 29 AUG 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 29 Aug 2007 VOL 147 ISS 10
FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 118
L19 159 L18

=> s 119 and bile
61800 BILE
344 BILES
61814 BILE

L20 27 L19 AND BILE
(BILE OR BILES)

=> s 119 and ibat
L21 366 IBAT
8 L19 AND IBAT

=> s 119 and bari
339 BARI
18 BARIS
357 BARI

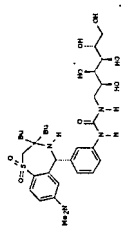
L22 0 L19 AND BARI
(BARI OR BARIS)

=> s 119 and lipid
29226 LIPID
214063 LIPIDS
358625 LIPID

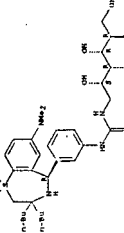
L23 5 L19 AND LIPID
(LIPID OR LIPIDS)

=> d cbib abs hitstr L21 1-8

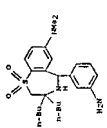
2671 ANSWER 1 OF 8 CAPTIVE COPYRIGHT 2007 ACE on STM
2007:5576 DOCUMENT NO. 14614431 Preparation of a 2,3,4,5-tetrahydro-1,1-
dioxido-1,4-benzothiazine for the treatment of hypertlipidaemia. Fric, H.
Wendelin; Glomzik, Helmut; Isenler, Martin; Schaefer, Nina-Jenny; Thiele,
Stefan (Sandor-Alexis Deutschland GmbH, Germany). Ger. DE 102065033100
B3 20070125, 12pp. (German). QICN: ONYKAW. APPLICATION: DE
2005-102065033100 20050315.

[illegible]

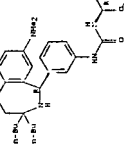
L2-1 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACE ON 8TH (Continued)



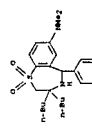
IT 300350-10-1
 RI: ICI (reagent); RACT (reagent or reagent)
 application of a benzothiazine diolide for the treatment
 hyperlipidemia
 300350-10-1 CAPUS
 1,4-benzothiazin-7-amine, 5-(3-aminophenyl)-3,3-dihydro-2,3,4,5-
 tetrahydro-N-methoxy-1,1-dioxide (CN INDX NAME)

[illegible]

LEI ALIEN 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STM

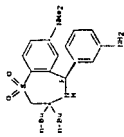


17 300350-10-1
 PL: ACT (Reactant); BACT (Reactant or Reagent)
 (1) (PM) reaction of benzothiazepine-phenylureido-glucoside for use in
 treatment of fluid exchange disorders
 18 300350-10-1 CAPUS 2-amine, 5-(12-aminophenyl)-2,3,1-dioxol-2,3,4,5-
 tetrahydro-1H-benzotriazol-1,1-dioxide (CA, INPES NAME)

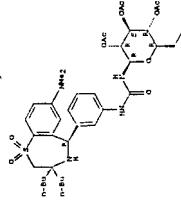


17	670738-61-9	191312-58-4P	
	PLI-27 (Reactant 1) SM		
	PLI-27 (Reactant 1) SM (synthetic preparation); PLI2 (preparation); PAC7 (Reactant or reagent)		
		preparation of benzothiazine-phenylaceto-glucosides for use in treatment of lipid exchange disorders	
MI	670727-11-7	CA126	
NI	1,4-benzothiazine-7-amine, 3-(3-aminophenyl)-3,3-dimethyl-2,4,4,5-		

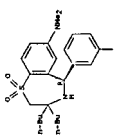
L21 ANSWER 2 OF 6 CAPLIS COPYRIGHT 2007 ACE on STU (Continued)



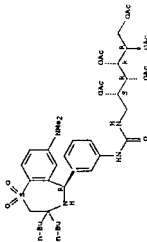
919512-58-6 CAPUS
Urea, N-[4-(3,4,5-trimethyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxol-1-yl)-1,4-imidazol-2-yl]-N'-(2,3,4,5-tetra-O-acetyl-D-glucopyranosyl)- (CA INDEX NAME)



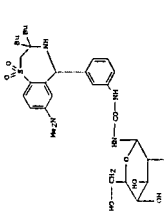
121. ANSWER 1 OF 8 CAPSULE COPYRIGHT 2007 ACE ON SYN



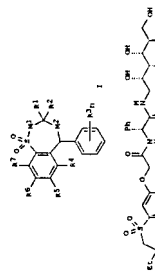
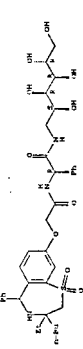
IN 921372-28-3 CAPUUS
CN D-Glucose, 1-deoxy-1-[[[3-[(4S)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,1-dioxido-1,4-benzothiazin-5-yl]phenyl]amino]carbonyl]amino]-2,3,4,5-pentacetate (CA INDEX NAME)



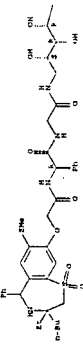
L21 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
2007101512 Document No. 140142950 Synthesis of 1,4-bis(ethoxystyryl)-
1,4-dioxane poly(vinylidenechloride) for use in treatment of lipid exchange
disorders; Trifk, Wendelin Gömböc, Weiner; Neuher, Hubert; Schaefer,
Ralph-Ludwig; Tütsch, Stefan (Amorix-Aventis Deutschland G.m.b.H.,
Germany) Ref. Offcn. 15.10.2005053099 At 20070118, 11pp. (German). CODES:
GENREF. APPLICATION: RN 2007-10-15-1028053099 950715.

[illegible][illegible]

2541. KENNEDY, J. R. *Optimal development of the pupae of the housefly, *Musca domestica* L., in relation to temperature and humidity*. *Ann. Entomol. Soc. Amer.* 1957, 50: 425-432. *See also* 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 2984, 2985, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3033, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3052, 3053, 3054, 3055, 3056, 3057, 3058, 3059, 3060, 3061, 3062, 3063, 3064, 3065, 3066, 3067, 3068, 3069, 3070, 3071, 3072, 3073, 3074, 3075, 3076, 3077, 3078, 3079, 3080, 3081, 3082, 3083, 3084, 3085, 3086, 3087, 3088, 3089, 3090, 3091, 3092, 3093, 3094, 3095, 3096, 3097, 3098, 3099, 3100, 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3114, 3115, 3116, 3117, 3118, 3119, 3120, 3121, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129, 3130, 3131, 3132, 3133, 3134, 3135, 3136, 3137, 3138, 3139, 3140, 3141, 3142, 3143, 3144, 3145, 3146, 3147, 3148, 3149, 3150, 3151, 3152, 3153, 3154, 3155, 3156, 3157, 3158, 3159, 3160, 3161, 3162, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3171, 3172, 3173, 3174, 3175, 3176, 3177, 3178, 3179, 3180, 3181, 3182, 3183, 3184, 3185, 3186, 3187, 3188, 3189, 3190, 3191, 3192, 3193, 3194, 3195, 3196, 3197, 3198, 3199, 3200, 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3208,

[illegible][illegible]

EN 753010-67-2 CAPJUS
CH 0-Glucitol, 1-[[[2P)-0-[[[3-hydroxy-3-methoxy-2,3,4,5-tetrahydro-7H-
[benzothio]1,1-dioxolo[5,5-phenyl]-1,4-benzothiazepin-6-yl]oxy]acetyl]-2-
phenyl-4-pyridyl]ethyl]amino]-1-deoxy- (9CI) (CA 111:21X NAME)



ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on ITN (Continued) PAGE 3-8

[illegible]CN1CC[C@H]2C(=O)N(C)C(=O)N2C1=O

0
NW 501603-95-2 CAPLUS
CN 1,4-Benzothiazepine,
7-bromo-3-butyl-9-ethyl-2,3,4,5-tetrahydro-8-methoxy-
5-phenyl-, 1,1-dioxide, (3R,5R)-tel- (9CI) [CA INDEX NAME]

BN 501663-94-1 CAPLUS
CN 1,4-benzothiazepin-8-ol,
3-butyl-3-ethyl-, 2,4,5-tetrahydro-7-(acetylthio)-
5-phenyl-, 1,1'-dioxide, (3b,3k)-tel- (5Ci) [CA INDEX NAME]

[illegible]

Run	Oil	75010-62-7 CAPLIZ
CN		Acetic acid, 1,1,3,5,3p-3-butyl-2-ethyl-2,3,4,5-tetrahydro-1,1-dioxido-5-phenyl-1,4-benzodiazepin-9-yl-oxyl-7,1,1-diethyl-ethyl ester, rel- (9Cl) (CA INDEX NAME)

CC(C)(C)C1=CC=C(C(=C1)C(=O)OCC(=O)OC(C)(C)C)C(=O)OCC(=O)OC(C)(C)C

73010-66-1 CAPTUSE
glycine, (2*R*)-[[[3-butyl-3-ethyl-2,3,4,5-tetrahydro-2-(methylthio)-1,4-dioxido-5-phenyl-1,4-naphthalenequin-4-yl]oxy]acetyl-2-phenyl]ethyl-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
Absolute enantiomers

Page 70

L21 ANSWER 4 OF A CAPLUS COPYRIGHT 2007 ACS ON 2TH
2002:59109 Document No. 139112038 Use of Nethothiazepines having activity
as inhibitors of local bile acid transport for reducing

FP-
BZ,
DESIGNATED STATES: CA, CN, CO, CR, GH, GN, HA, HU, ID, LI, LJ, LV, MA, MD, RU, SC, SD, SL, SG, SI, SK, SM, SN, SR, ST, SV, TH, TJ, TM, TN, TR, TT, UG, UA, UZ, VC, VE, VI, VN, YU, ZA, ZM, ZW.

22. F1, F2, CA, CB, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UU, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

forms of xylipidosis wherein the hydroxylated oxo- and oxo-acylides are characterized by defects in lipoprotein synthesis or their receptors.

66AS26-29-4

PL: PAC (Pharmacological activity); THU (Therapeutic uses); BIOD (Biological study); USES (Uses)
(Benzothiazepines) bile acid transport inhibitors for treatment

Ref	CA Index	hypercholesterolemia and dyslipidemia, and use with HMG-CoA reductase inhibitors)
364526-29-4	CAPUS	
0- β -D-Glucopyranosidic acid, (3R,3'-R)-3-ethyl-3'-ethyl-2,4,5-tetracyclo-1,1-dioxo-5-phenyl-1,1-naphthalenylazepin-8-yl[19C]	(CA INDEX NAME)	

CN(C)C(=O)c1ccc(cc1)C(=O)O[illegible]

PM	5-(6-chloro-1-naphthyl)
CH	1,1-dichloro-5-phenyl-1,4-benzothiazepin-6-ylloxyacetamido-
	(ee) = 95% (CA INDEX NAME)
	Absolute stereochemistry.

The chemical structure shows a benzene ring with several substituents. At the top position, there is a diazo group (N_2) attached to a carbon atom. Moving clockwise from the top, there is a substituent labeled 'E' at the ortho position. At the para position, there is a diazoacetate side chain: $-\text{CH}_2-\text{C}(=\text{O})-\text{O}-\text{CH}_2-\text{CH}_2-\text{N}_2$. At the bottom position, there is a substituent labeled 'E' at the para position relative to the top diazo group. Moving counter-clockwise from the bottom, there is a substituent labeled 'Me' at the ortho position, and another substituent labeled 'E' at the meta position relative to the bottom diazo group.

BN 501663-76-9 CAPILLAS
CN Benzenesulfonic acid, α -[[(1S)-3-benzyl-3-ethyl-2,3,4,5-tetrahydro-1,1-dioxol-5-yl]-1,4-benzothiazol-2-yl]-4-[(1-oxo-2-ethyl-1H-imidazol-2-yl)-2-yl] (9CI) (CA INDEX 1004)

PN 501663-77-0 CAP122

Acetic acid, [[[(3*R*,5*R*)-3-butyl-3-ethyl-2,3,4,5-tetrahydro-1*H*-indolizino-5-phenyl-1,6-naphthiazepin-8-ylidene],-(*rac*)]- (SCI) (CA: HPLX NAME)

Page 70

L21 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACE on ETN
7003:22168 Document No. 131:23W209 Preparation of benzothiazepine
derivatives for potential use as local bile acid transport inhibitors for

[illegible]

PC, CI, ST, SU, TR, UN, US.
PT, SE, ZH, TD, TC, TP, (Email:Full). CDSIN: FIXED. APPLICATION: NO
2002-04-04 20020903. PPH: 117: 08 2001-1621 Jan1997.

A8 Benzothiazines 1, where n p1 and n2 are selected from hydrazene, alkyl, alkenyl, and the other is selected from alkyl, alkenyl; k3 and n6 and the other of k4 and k5 are independently selected from hydrogen, halo, nitro, cyano, hydroxy, amino, carboxy, carbamoyl, mesopropoxy, sulfonylalkyl, allyl, alkenyl, arylalkyl, alkoxy, alkynyl, alkenynyl, N-alkylamido,

[illegible][illegible]

compounds containing them are also described. Thus, 1,1-dioxo-2(1-3-butyl-3-ethyl-5-

0

PH	501C3-80-5	CAPTURE
CH	Glycine.	
(29)	N-[1-[[[7-proxo-3-pentyl-3-ethoxy-2,3,4,5-tetrahydro-1 <i>H</i> -indolizino-5-phenyl-1 <i>H</i> -4-methylazepin-8-yl]oxy]acetyl]-2-phenylthietyl-1-yl] (CA INDEX NAME)	

50163-99-7 CAPTIF
 (2) Glycine.
 (2) N -{[1,3,5,5-tetramethyl-2,3,4,6-tetrahydropyridin-2-yl]methyl}-1-methoxy-

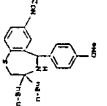
Ph.
 Absolute Stereochemistry.

FN 50163-91-E CAPJJE
CJ GJYELG.
(2) 94-11115.551-3-methyl-2-ethyl-4,5-tetrahydro-1H-imidazo-

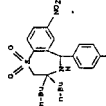
Page 70

[illegible]

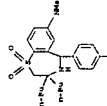
ALL RIGHTS RESERVED. 2007 ACS on STM (Continued)



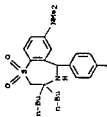
352855-95-3 CAPTUS
 1,4-Benzothiazepine,
 3,3,3-dimethyl-2,3,4,5-tetrahydro-5-(4-methoxyphenyl)-7-nitro-, 1,1-dioxide (9CI) (CA INDEX NAME)



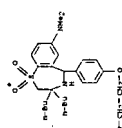
393855-98-6 CAPLUS
1,4-Benzothiazepin-7-amine, 3,3-dibutyl-2,3,6,5-tetrahydro-5-(4-methoxyphenyl)-N,N-diethyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



L21 ANSWER 7 OF 8 CAPLUS CUP/NIGHT 2007 ACS on STN (Continued)
193846-01-4 CAPLUS
Phenol, 4-(3,3-dimethyl-7-(diacetylmethyl)-2,3,4,5-tetrahydro-1,1-dioxo-
1,4-benzothiazepin-5-yl)- (PCI) (CA INDEX NAME)

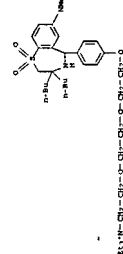


1,4-Benzothiazepine-7-amine, 3,3-dibutyl-2,3,4,5-tetrahydro-3-(4-(2-(2-(2-iodoethoxy)ethoxy)ethoxy)phenyl)-N,N-dimethyl-, 1,1-dioxide (9C) (CA 95:99, 1000, 1001)

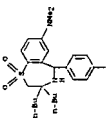
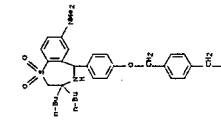


393856-09-2 CAPLIS
1,4-Bisnitroazepin-7-amine, 2,3-dibutyl-5-[4-[[4-(chloromethyl)phenyl]aethoxy]phenyl]-2,3,4,5-tetrahydro-N,N-dimethyl-1,4-dioxine [SCN] (CA INDEX NAME)

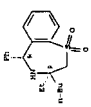
393956-20-7 CAPTUS
1,4-benzothiazepin-9-amine, 3,3-dibutyl-5-[4-(2-
(ethoxycarbonyl)ethoxyphenyl)-2,3,4-tetrahydro-*N,N*-dimethyl-
1,1'-di-oxide
(SCI) (CA INDEX NAME)



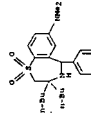
L-1 ANSWER 7 OF 8 CAPTIA'S COPYRIGHT 2007 ACS on STN (Continued)

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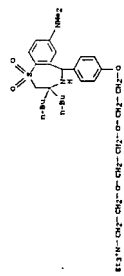
1.21 ANSWER 7 OF 8 CAPITALS CORRUPTION 2007 ACS ON 07/11/2007 (Cont | Index)



393856-74-1 CAPUS
Ethanamine, 2-[(3,3-dibutyl-7-(diethylamino)-2,3,4,5-tetrahydro-1,1-dioxolono), 4-benzothiazepin-5-yl]phenoxy)-N,N-dimethyl-1-(1-
NAME)



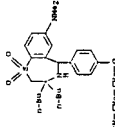
PH 33856-77-4 CAPLUS
 CH Echantillon,
 2-(2-[2-(4-[3,3-dithiyl]-7-(dimethylamino)-2,3,6,8-tetrahydro-
 1,1-dioxido-1,4-naphthiazepin-5-yl]phenoxy)ethoxy)ethoxy-*N,N,N*-triethyl-
 (9CI) (CA INDEX NAME)



L21 NEVER 7 OF 8 CAPLUS COPYRIGHT 2007 ACE ON ETH (Continued)



PN 191345-23-0 CAPLIS
CN Ethanzinam, 2-({3,3-dimethyl-7-(dimethylamino)-2,3,4,5-tetrahydro-1,3-dioxo-1,4-benzothiazep[4,5-y]phenoxyl-N,N-triethyl)-1-iodide (PCI)

[illegible][illegible]

these results suggest that bile acid-induced oral mucosal cell apoptosis is mediated by the non-mutagenic acid component rather than by the mutagenic bile salt component. In these bile acid experiments, we observed a dose-dependent decrease in the survival of adherent oral mucosal cells after 24 h of treatment with bile acid. This dose-dependent decrease in cell survival was observed in the absence of any significant changes in cell morphology, cell cycle distribution, and apoptosis. The bile acid-induced decrease in cell survival was not observed in the absence of bile acid or in the presence of bile salts alone. These results suggest that bile acid-induced oral mucosal cell apoptosis is mediated by the non-mutagenic acid component rather than by the mutagenic bile salt component. In these bile acid experiments, we observed a dose-dependent decrease in the survival of adherent oral mucosal cells after 24 h of treatment with bile acid. This dose-dependent decrease in cell survival was observed in the absence of any significant changes in cell morphology, cell cycle distribution, and apoptosis. The bile acid-induced decrease in cell survival was not observed in the absence of bile acid or in the presence of bile salts alone. These results suggest that bile acid-induced oral mucosal cell apoptosis is mediated by the non-mutagenic acid component rather than by the mutagenic bile salt component.



Absolute stereochemistry.

10546005.trn

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L4 0 S L3
L5 23 S L3 FULL

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L6 3 S L5

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FILE 'REGISTRY' ENTERED AT 17:02:42 ON 29 AUG 2007
L7 STRUCTURE UPLOADED
L8 10 S L7
L9 127 S L7 FULL

FILE 'CAPLUS' ENTERED AT 17:03:27 ON 29 AUG 2007
L10 42 S L9
L11 1 S L10 AND BILE
L12 0 S L10 AND IBAT
L13 0 S L10 AND TRANSPORT
L14 6 S L10 AND INHIBITOR

FILE 'STNGUIDE' ENTERED AT 17:05:05 ON 29 AUG 2007
FILE 'CAPLUS' ENTERED AT 17:06:30 ON 29 AUG 2007
L15 4 S L10 AND LIPID

FILE 'REGISTRY' ENTERED AT 17:07:46 ON 29 AUG 2007
L16 0 S 501-663-91-8
L17 1 S 501663-91-8
L18 1652 S 937.123.1/RID

FILE 'CAPLUS' ENTERED AT 17:11:52 ON 29 AUG 2007
L19 159 S L18
L20 27 S L19 AND BILE
L21 8 S L19 AND IBAT
L22 0 S L19 AND BARI
L23 5 S L19 AND LIPID

10546005.trn

FILE 'STNGUIDE' ENTERED AT 17:13:14 ON 29 AUG 2007

=> s l20 and SAR
'RID' IS NOT A VALID FIELD CODE
0 937.123.1/RID
0 BILE
0 SAR
L24 0 L20 AND SAR

=> FIL CAPLUS
FILE 'CAPLUS' ENTERED AT 17:15:23 ON 29 AUG 2007
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FILE COVERS 1907 - 29 AUG 2007 VOL 147 ISS 10
FILE LAST UPDATED: 28 AUG 2007 (20070828/ED)

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=> s l20 and SAR
11688 SAR
4115 SARs
15503 SAR
L25 (SAR OR SARs)
0 L20 AND SAR

=> s l20 and Structure activity
2954062 STRUCTURE
795321 STRUCTURES
3325146 STRUCTURE
(STRUCTURE OR STRUCTURES)
2255565 ACTIVITY
448733 ACTIVITIES
2444372 ACTIVITY
(ACTIVITY OR ACTIVITIES)
92355 STRUCTURE ACTIVITY
(STRUCTURE(W)ACTIVITY)
L26 2 L20 AND STRUCTURE ACTIVITY

=> dscan
DSCAN IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.

10546005.trn

For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> d scan

126	2. Nerveux, Cerepus. Copyright 1997 ACS on STW.
127	28-22 (therapeutic compounds (new than one hetero atom))
128	section cross-reference(s): 1
129	transporters: 1
130	transporter inhibitors: 1
131	transporter modulators: 1
132	transporters: 1
133	hyperlipidemia: 1
134	hyperlipidemia: 1
135	hyperlipidemia: 1
136	hyperlipidemia: 1
137	hyperlipidemia: 1
138	hyperlipidemia: 1
139	hyperlipidemia: 1
140	hyperlipidemia: 1
141	hyperlipidemia: 1
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197	hyperlipidemia: 1
198	hyperlipidemia: 1
199	hyperlipidemia: 1
200	hyperlipidemia: 1

17 Transport proteins
transport inhibitors

BL: BCP (biochemical process); BUL (biological study); BOC (Process)
bile acid-sodium-co-transport; preparation of benzothiazepines
as apical sodium co-dependent bile acid transporter

Hyperlipidemia
 HL: PCR (biochemical process); HL (biological study); PCR (process)
 (preparation of benzothiazepines as optical sodium co-dependent bile salts)

acid transporter inhibitors
17996-24-2, (3*S*)-3-(3-ethoxy-3-ethyl-2,3,4,5-tetrahydro-7,8-dihydro-5-phenyl)-4-methylazepine, 1-dioxole
PL: PAC (Pharmacological activity) NLM (Biological study)
(preparation of benzothiazines as apical sodium co-dependent bile

	acid transporter inhibitors			
17	200161-52-5P	200161-51-CP	200161-55-7P	200161-58-0P
	200161-53-5P	200161-61-5P	200161-63-7P	200161-64-9P
	200161-60-4P	200161-62-7P	200161-65-7P	200161-67-9P
	200161-66-0P	200161-67-1P	200161-68-2P	200161-70-6P
	200161-72-8P	200161-73-0P	200161-75-1P	200161-76-3P
			200161-78-1P	200161-80-1P

635753-20-7P
AL: PAC (Pharmacological activity); SPN (synthetic preparation); B10L (biological study); PAC (Preparation)
(preparation of histochromes as apical medium co-dependent bile

acid transporter inhibitors)
17 100-39-0, Benzyl benzoate 100-44-7, reactions 124-40-3, Ethacrynic acid
reactions 33-38-2, 4-Fluorobenzenesulfonyl chloride 619-23-8,
3-Nitrobenzoyl chloride 82-67-2, 4-Methoxybenzyl chloride 924-99-6,
3-Methoxybenzyl chloride 101-51-0, 3-Amino-4-methylphenol

35421-08-0, 4-*propyl*oxazonyl chloride 63573-20-4, 3-*adamantyl* chloride
288161-61-9, 2-*adamantyl*-2-*propyl*-1-*hexanol* 63573-21-4, 63573-22-9
63573-23-0, 63573-24-1 63573-25-2, 63573-26-3 63573-27-4
63573-28-6

[illegible]

2981.62-700-4 633752-02-7P 633752-66-9P 633752-69-1P
633752-70-4P 633752-71-0P 633752-76-0P 633752-79-2P
633752-80-3P 633752-83-6P 633752-84-1P 633752-85-1P
633752-88-4P 633752-90-0P 633752-96-1P 633752-99-0P
633752-99-0P 633752-99-0P 633752-99-0P 633752-99-0P

ML: RCT (Reactant); SPN (Synthetic preparation); HEP (Preparation); RACT

L36 2 ANSWERS CAPLIS COPYRIGHT 2007 ACS ON STN
CC 1-12 (Pharmacology)
Section cross-reference(s): 6

ST substrate specificity of the ileal and the hepatic Na/bile acid cotransporters of the rabbit. II. A reliable 3D QSAR pharmacophore model for the ileal Na/bile acid cotransporter sodium bile acid cotransporter pharmacophore QSAR

BL: BSL biological study; unclassified; Biol. (biological study);
Hle acid-sodium-transporting; substrate specificity of
bleal and hepatic Na⁺/K⁺ ATPase cotransporters of the rabbit
bleal and a revised 3D weak fluorophore model for bleal Na⁺/K⁺

17 Intestine
acid cotransporters;
(ileum; substrate specificity of ileal and hepatic Na⁺/mole
acid cotransporters of the rabbit and a reliable 3D GSAK pharmacophore
model for ileal Na⁺/mole acid cotransporters)

28 Liver
Pharmacophores
QSAR (structure-activity relationship)
Structure-activity relationship

acid
for ileal Na⁺/bile acid cotransporter)
if bile acids
(substrate specificity of ileal and hepatic Na⁺/bile acid cotransporters of the rabbit and a rat ileal 3D 250k phosphate

AL: PAC (biological activity or effector, except otherwise); BSU (biological study, unclassified); BSL (biological study) (substrate specificity of lase) and heptatic Na+/mille acid concentrate of the shell and the in 0.045 molar

for ileal Na⁺/bile acid cotransporter)
81-24-3, Cholestyramine 516-35-8, Cholestyrololyltaurine 516-30-7,
Deoxychoyltaurine 12274-51-4, 3-OH 152802-07-4, 5 0322

200203-82.3 202055-14.8 15 1500 211263-03.3 8 0929 214288-64-4
214283-67.7 8 8005 214284-04.6 8 0421 214284-06.9 5 0211
214284-70.2 214285-27.5 3 0216 214285-31.4 2 235358-90.0 5 1647
214289-00.5 8 2305 235359-01.4 8 03-01
B1: PAC (political activity or affiliation)
B2: PAC (political activity or affiliation)

Biological
study, (classified): flux (biological study)
(substrate specificity of ileal and hepatic Na⁺/bile acid
cotransporters of the rabbit and a reliable 3D CSA phosphore

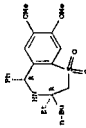
code)

for ideal Na⁺/bile acid cotransporter)

ALL ANSWERS HAVE BEEN SCANNED

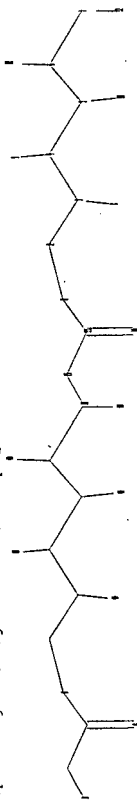
Page 79

=> d cbib abs hitstr 1-2

[illegible][illegible]

Page 82

```
=> Uploading C:\Program Files\Stnexp\Queries\chain2.str
```

[illegible]

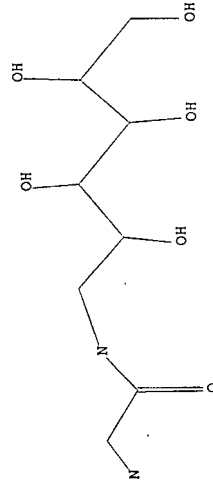
Match level :

1:1:CLASS 2:2:CLASS 3:3:CLASS 4:4:CLASS 5:5:CLASS 6:6:CLASS 7:7:CLASS 8:8:CLASS 9:9:CLASS
10:10:CLASS 11:11:CLASS 12:12:CLASS 13:13:CLASS 14:14:CLASS 15:15:CLASS 16:16:CLASS

```

=> d 127
L27 HAS NO ANSWERS
L27 STR

```



G1 O.S.

Structure attributes must be viewed using STN Express query preparation.

10546005.trn

=> s 127
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress....
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 17:26:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 422 TO ITERATE

100.0% PROCESSED 422 ITERATIONS
SEARCH TIME: 00.00.01
7 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7203 TO 9672
PROJECTED ANSWERS: 7 TO 298

L28 7 SEA SSS SAM L27

L29 11 L28

=> FILE REGISTRY ENTERED AT 17:26:54 ON 29 AUG 2007
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6
DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6

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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

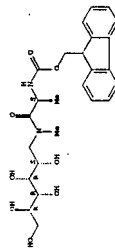
<http://www.cas.org/support/stngen/structdoc/properties.html>

=> d scan 128

Page 83

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USE 7 ANSWERS REGISTER COPYRIGHT 2007 ACS on STN
IN-DOCK
1-deoxy-1-(11-oxo-2-((1R)-2-oxo-1-phenylethoxy)ethyl)-1H-1,2,3-triazole-4-
yl-1H-1,2,3-triazole (1R)
MW 325.32 g/mol
Molecular structure.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCOUT (110)

Page 84

10546005.trn

=> d his

(FILE 'HOME' ENTERED AT 16:25:08 ON 29 AUG 2007)
FILE 'REGISTRY' ENTERED AT 16:25:17 ON 29 AUG 2007
STRUCTURE UPLOADED
0 S L1
L1
L2
FILE 'STNGUIDE' ENTERED AT 16:26:00 ON 29 AUG 2007
FILE 'REGISTRY' ENTERED AT 16:27:12 ON 29 AUG 2007
STRUCTURE UPLOADED
0 S L3
23 S L3 FULL
L3
L4
L5
FILE 'CAPLUS' ENTERED AT 16:28:46 ON 29 AUG 2007
3 S L5
L6
FILE 'STNGUIDE' ENTERED AT 16:39:06 ON 29 AUG 2007
FILE 'REGISTRY' ENTERED AT 17:02:42 ON 29 AUG 2007
STRUCTURE UPLOADED
10 S L7
127 S L7 FULL
L7
L8
L9
FILE 'CAPLUS' ENTERED AT 17:03:27 ON 29 AUG 2007
42 S L9
L10
L11
L12
L13
L14
1 S L10 AND BILE
0 S L10 AND IBAT
0 S L10 AND TRANSPORT
6 S L10 AND INHIBITOR
FILE 'STNGUIDE' ENTERED AT 17:05:05 ON 29 AUG 2007
FILE 'CAPLUS' ENTERED AT 17:06:30 ON 29 AUG 2007
4 S L10 AND LIPID
L15
FILE 'REGISTRY' ENTERED AT 17:07:46 ON 29 AUG 2007
0 S 501-663-91-8
1 S 501-663-91-8
1652 S 937.123.1/1/1D
L16
L17
L18
FILE 'CAPLUS' ENTERED AT 17:11:52 ON 29 AUG 2007
159 S L18
L19
L20
L21
L22
L23
27 S L19 AND BILE
8 S L19 AND IBAT
0 S L19 AND BARI
5 S L19 AND LIPID
FILE 'STNGUIDE' ENTERED AT 17:13:14 ON 29 AUG 2007
0 S L20 AND SAR
L24
FILE 'CAPLUS' ENTERED AT 17:15:23 ON 29 AUG 2007
0 S L20 AND SAR
2 S L20 AND STRUCTURE ACTIVITY
STRUCTURE UPLOADED
S L27
L25
L26
L27

10546005.trn

FILE 'REGISTRY' ENTERED AT 17:26:48 ON 29 AUG 2007
7 S L27
L28
FILE 'CAPLUS' ENTERED AT 17:26:48 ON 29 AUG 2007
11 S L28
L29
FILE 'REGISTRY' ENTERED AT 17:26:54 ON 29 AUG 2007
=> s 127 full
FULL SEARCH INITIATED 17:27:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7541 TO ITERATE
L29
100.0% PROCESSED 7541 ITERATIONS
SEARCH TIME: 00.00.01
118 ANSWERS
L30
118 SEA SSS FUL L27
=> file caplus
FILE 'CAPLUS' ENTERED AT 17:27:24 ON 29 AUG 2007
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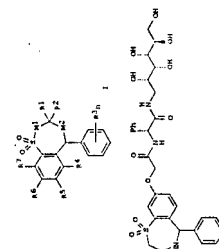
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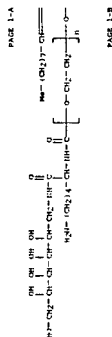
=> s 130
L31
52 L30
=> s 131 and lipid
292226 LIPID
214063 LIPIDS
358625 LIPID
L32
4 L31 AND LIPID
L32
=> s 131 and ibat
366 IBAT
L33
4 L31 AND IBAT

[illegible][illegible][illegible]

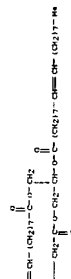
with protein (11.5% protein of adipocyte, cytoplasmic, membrane, and nuclear fractions). Comparison of our results with data obtained by others allows us to suggest that detected receptors radioligand may be attributed to the known lectins of mammalian cells.

[illegible]

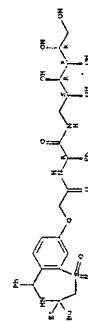
11

[illegible][illegible]

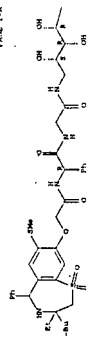
PAGE 1-A



PAGE 1-19

[illegible]

PAGE 1-A



Absolute stereochemistry.

10546005.trn

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:Y
COST IN U.S. DOLLARS
FULL ESTIMATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE
STN INTERNATIONAL LOGOFF AT 17:34:10 ON 29 AUG 2007

SINCE FILE ENTRY	TOTAL SESSION
51.55	746.63

SINCE FILE ENTRY	TOTAL SESSION
-6.24	-21.84